

# PRESCRIBER'S ORDERS FOR: PICU Severe Burns (over 25% TBSA)

DATE//_ DD MM YYYY	_ TIME		BSA	M2
WEIGHT:KG	HEIGHT:	CM	☐ ALLERGY CAUT	ON sheet reviewed
Code Status  ☐ Code status:				
Status/Admit/Transfer/Disch  Attending Physicians Intensivist Plastic Surgeon  Plastic Surgeon on call notif Injury Information % Total Body Surface Are Type of burn Other injuries (list) Injury time: : (h)	fied at time: ea (TBSA) burn (See bur	n diagram f		
Patient Care  ✓ Insert nasojejunal tube for cor ✓ Target urine output 0.5 to 1 m  Measure and record bladder p (consider if increasing ventilator ✓ Burn Dressing as per Plastic ✓ Elevate burned areas if possil	nL/kg/hr bressure Q6H - r y pressures, dec Surgery	notify physicia	an if rising or greater than 1	
Vital Signs  ✓ Vital signs Q1H and PRN  ✓ Target heart rate less than 17  ✓ Target mean arterial pressure treatment)  ✓ Target patient temperature 37 actively warm patient if ambient	greater than 55	mmHg (see	recommendations for hypotom temperature between 24	
Medications				
Please refer to the guideline  □ acetaminophen mg  (Maximum oral dose 75 mg/kg  rectal dose 80 mg/kg/24h; Ma  □ ketamine mg  ketamine mg  □ midazolam bolus mg	mg/kg/h IV (dilut mg (70 mg grams) e IV Q8H PRN (I es for Pain Mar ated Children w g (15 mg/kg/dose g/24 h; Maximul aximum 4000 mg g (0.05 mg/kg/do 0.5 to 1 mg/kg/do	Maximum 8 r nagement for vith Severe I e) PO/PR/NG m oral dose i g/24 h from a se) IV Q15M dose) IV Q10M	ed Ringer's) for 24 hours pos once for patients with docur ing/dose) or Non-Intubated Children Burns /NJ Q4H PRN for comfort a for less than 3 months 60 m all sources) IN PRN pain to maintain MAPS	with Severe Burns and maintain MAPS 0 ng/kg/24h; Maximum
Signature:				
College ID:				

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DATE DD	_//_ MM YYYY	TIME		BSA	M2
WEIGHT	KG	HEICHT:	CM		ALITION shoot reviewed
□ Dextrose 5% □ Dextrose 5% ▶ Please refer t Pain Manager □ morphine con □ dexmedetomi and SBS -1 to	fluid rate	um Chloride IV m Chloride IV F ctated Ringers s for Pain Mated Children to 40 mcg/kg infusion 0 to 0.	For weight lefor weight at complete IV	ce) ss than 5 kg or above 5 kg cmL/h (75% maintena r Non-Intubated Child Burns bus infusion, titrated to r continuous infusion, t	dren with Severe Burns and
Central Veno ☐ 0.9% Sodiu ☐ 0.9% Sodiu	us Monitoring um Chloride IV w um Chloride IV v	<b>g Lines</b> vith heparin 2 u	nits/mL and ir	nuous infusion, titrated  fuse at 1 mL/h for weig  fuse at 2 mL/h for weig	ght less than 20 kg
	ım Chloride IV w			fuse at 2 mL/h for weig fuse at 1 mL/h for weig	
Prehospital (patient wein kg injury 50% of tota Adjust for presuscitation Volume ren mL/ (8 Ringer's	resuscitation fight) x (% TBSA x % x 3 I resuscitation mL in first ore-calculation fluid already naining / time r	fluid volume _ A) x (3 mL/Kg/ mL/kg/%TBSA  volume given 8 hours after i fluid administe administered emaining in fi nce burn) =	mi?%TBSA) = To = in first 8 hou njury ration = rst 8 hours = mL/h	tal resuscitation fluid mL resuscitation fluid rs after injury mL in first 8 hours mL remaining for first Initial BCCH resuscit r continuous intraven	t 8 hours after injury
nasojejunal tu	ube (as soon as or enteral feeds	possible after a mL	admission) /h as tolerated	1	h via nasogastric tube or
Signature:			Print	Name:	
College ID:					

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DATE	_//	TIME			
DD	MM YYY	Υ		BSA	M2
WEIGHT:	KG	HEIGHT:	CM	☐ ALLERGY CAUT	ION sheet reviewed
Laboratory					
☑ Blood gas, a	rterial as need	ded			
Blood gas, arte	rial				
☑ PRN					
Q8H for th	e first 24 hour	'S			
Q12H for t	the second 24	hours			
Q24H at 0	600h				
Complete blood	I cell count wit	th automated white	e blood cell di	fferential	
Q8H for th	e first 24 hour	'S			
Q12H for t	the next 24 ho	urs			
Q24H at 0	600h				
Sodium level, s	erum				
Q8H for th	e first 24 hour	`S			
	the next 24 ho	urs			
Q24H at 0					
Potassium leve					
	e first 24 hour				
	the next 24 ho	urs			
☑ Q24H at 0					
Chloride, serum					
	e first 24 hour				
	the next 24 ho	urs			
	600h				
Urea	C . C . L				
	e first 24 hour				
	the next 24 ho	urs			
Q24H at 0					
Creatinine (Cr),					
	e first 24 hour the next 24 ho				
☑ Q12H lor 1 ☐ Q24H at 0		urs			
M Q24⊓ at 0	60011				
Blood Product	s				
		ns only after con:	sultation with	h plastic surgery and inte	nsive care attending
physicians	or translation	io omy antor oom	ounation with	in plactic cargory and into	norro caro attorianing
Medical Imagin					
Radiograph,	chest on adm	ission			
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PTN# BURNv1

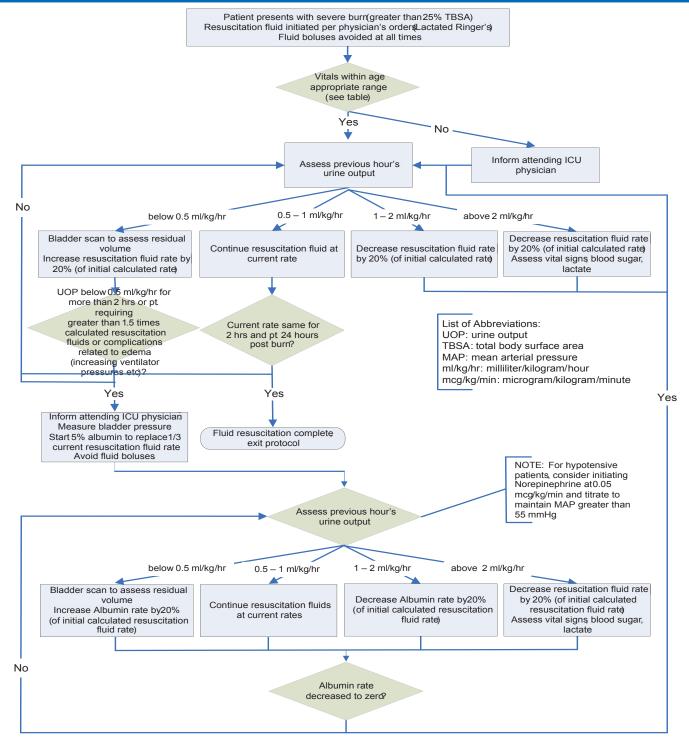
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### **BURN RESUSCITATION PROTOCOL - INITIAL 48 HOURS**



CC.19.02

BCCH Child & Youth Health Policy and Procedure Manual

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### PATIENT LABEL SD (Superficial Dermal) (Deep Dermal) FT (Full Thickness) ᇤ Final TBSA Final TBSA (0.0%) 9 $\frac{1}{2}$ SD by Dr (Preliminary) by Dr. ᇤ **BURN DIAGRAM** Preliminary TBSA (0.0%) Preliminary TBSA □ BCCH (Final) OO $\mathbb{R}$ 8 □ VGH SD Total Adult 9.5 3.5 3.5 2.5 9.5 2.5 2.5 13 13 6.5 15y 2.5 3.5 13 13 3.5 10-14y 3.5 2.5 2.5 2.5 8.5 3.5 13 13 Age 5-9y 3.5 Date of TBSA estimation 3.5 Date of TBSA estimation 2.5 2.5 2.5 5.5 5.5 2.5 13 13 $\infty$ 1<del>4</del>y 2.5 6.5 3.5 6.5 3.5 Date of admission 13 13 Birth-1y 3.5 3.5 Date of burn 5.5 13 13 2.5 2.5 2.5 2.5 Post Trunk R. Buttock Ant. Trunk . Buttock R.U. Arm ..U. Arm R.L. Arm Genitalia .L. Am R. Thigh R. Hand Hand Thigh R. Foot R. Leg . Leg . Foot Neck Head Area



Associated injuries

□ Inhalation injury

□ Chemical

□ Contact

□ Flame

Scald

□ Electrical

# $\mathbf{\Sigma}$





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Assessment by

Post. = posterior

**Key** Ant = anterior

R.U. = right upper

R.L. = right lower

kg = kilograms

L = left

° = degrees

R = right

TBSA = total body surface area

y = years

ml = millilitres

L.U. = left upper L.L. = left lower



Date:\_\_\_\_

### **Pediatric Intensive Care Unit** Pediatric Major Burn **Resuscitation Nursing Flow Sheet**

	Burn Ir	nformation and Estim	nated Fluid Resuscita	tion Volume	
Pre burn weight (kg)	% TBSA Burn	Pre arrival fluid volume	24 hour Parkland calculation	Estimated volume in first 48 hours	Initial BCCH resuscitation rate

Local Time	Hours since Burn	Infusion Rate	Total Crystalloid (mL)	Total Colloid (mL)	Enteral Feeds (mL)	TOTAL Fluids in	TOTAL Output (mL)	NG Losses (mL)	Blood Loss	TOTAL Fluid Out	MAP
	1 <sup>st</sup> hr										
	2 <sup>nd</sup> hr										
	3 <sup>rd</sup> hr										
	4 <sup>th</sup> hr										
	5 <sup>th</sup> hr										
	6 <sup>th</sup> hr										
	7 <sup>th</sup> hr										
	8 <sup>th</sup> hr										
Initi	al 8 hours	total:									
	9 <sup>th</sup> hr										
	10 <sup>th</sup> hr										
	11 <sup>th</sup> hr										
	12 <sup>th</sup> hr										
	13 <sup>th</sup> hr										
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	20 <sup>th</sup> hr										
	21 <sup>st</sup> hr										
	22 <sup>nd</sup> hr 23 <sup>rd</sup> hr										
	23 <sup>th</sup> hr										
	uent 16 ho										
First	t 24 hours	total:									

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### **Kev**

hr = hour

kg = kilogram

MAP = mean arterial pressure

mL = milliliter

TBSA = total body surface area

November 2015

### Age Appropriate Vital Sign Ranges\*

Suggested Range of Normal Values								
Age Group	0 days- 3 months	3-12 months	1-4 years	4 yrs – 12 yrs	Over 12 years			
HR	110-170	100-150	90-120	70-110	60-100			
RR	30-60	25-50	15-40	15-30	12-16			
Systolic	60-80	70-100	80-110	80-120	90-130			
MAP (lower limit)	45	50	55	60	65			

<sup>\*</sup>Modified from Nelson's Textbook of Pediatrics, 17<sup>th</sup> edition.

### **Recommendations for Hypotension**

Hypotension MUST NOT be defined or acted upon by MAP values alone. It must be correlated with decreased urine output and an overall patient assessment. MAP values below those outlined in the table above are acceptable as long as urine output exceeds 0.5 mL/kg/hr, ScvO2 greater than 60% and lactate less than 3mmol/L.

Fluid boluses should ONLY be administered for the reversal of acute profound hypotension.

If Mean Arterial Pressure (MAP) is consistently less than the lower limit for age and there is evidence of poor end-organ perfusion (urine output less than 0.5 mL/kg/hr, lactate greater than 3mmol/L, ScvO2 less than 70%) the following stepwise guide is recommended:

- Assess Volume Status: If MAP is less than the lower limits outlined above, CVP is less than 5 and urine output is below 0.5 mL/kg/hr, refer to the Burn Resuscitation Algorithm to determine the appropriate increase in resuscitation fluid rate (generally 20%). Continue fluid administration as guided by the Burn Resuscitation Algorithm.
- 2. If MAP is persistently less than the lower limit for age and resuscitation fluid rate is greater than 2 times the initial calculated rate, consider initiation of Norepinephrine at 0.01-0.05 mcg/kg/min to maintain MAP above the lower limit for age (severe burn patients may require Norepinephrine for vasodilatory shock secondary to a massive systemic inflammatory response).
- 3. Reassess Patient: If persistently requiring Norepinephrine (0.01-0.05 mcg/kg/min) consider a lower MAP goal as long as urine output exceeds 0.5 mL/kg/hr, ScvO2 greater than 60% and lactate less than 3mmol/L.
- 4. Maintain ionized calcium greater than 1mmol/L.

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